

Listing of the Claims

1. (Currently Amended) A method for establishing a data communication session with a mobile subscriber in a wireless communication network, comprising:

receiving a registration request at a packet data server to register a data communication session between the packet data server and the mobile subscriber prior to a radio air link being established with the mobile subscriber;

sending a reply signal from the packet data server to trigger the establishment of a radio air link between the base station and the mobile subscriber to allow communication between the packet data server and the mobile subscriber;

waiting a ~~set~~ time period after ~~receiving~~ the registration request and the reply to allow establishment of the radio air link before sending a link configuration request to the mobile subscriber, wherein the link configuration request is used to set up a data link connection between the mobile subscriber and the packet data server; and

establishing a data communication session between the mobile subscriber and the packet data server using the data link connection.

2. (Cancelled)

3. (Currently Amended) The method of claim 1, further comprising calculating a dynamic duration for the set time period based on a network conditions.

4. (Currently Amended) The method of claim 1, wherein waiting the ~~set~~ time period comprises providing a fixed wait time period having a duration between 10 milliseconds and 1 second.

5. (Currently Amended) The method of claim 1, wherein waiting the ~~set~~ time period comprises providing a fixed wait time period having a duration of approximately 100 milliseconds.

6. (Original) The method of claim 1, wherein registering the data session comprises registering the data session according to an A11 protocol compatible with a Point-to-Point Protocol (PPP) communication network.

7. (Previously presented) The method of claim 1, wherein sending the link configuration request signal comprises sending a Point-to-Point Protocol (PPP) based signal.

8. (Previously presented) A method for communicating with a mobile subscriber in a wireless communication network, comprising:

receiving a request at a packet data server to register a data session between a mobile subscriber and the packet data server prior to a radio air link being established with the mobile subscriber;

sending a signal from the packet data server to trigger the establishment of a radio air link between the base station and the mobile subscriber to allow communication between the packet data server and the mobile subscriber;

sending an initial link configuration signal for the mobile subscriber from the packet data server, wherein a link configuration signal is used to establish a data link connection between the mobile subscriber and the packet data server; and

waiting a first set time period from sending the initial link configuration request signal for the mobile subscriber before sending a second initial link configuration request signal, wherein the first set time period provides additional time for establishment of the radio air link.

9. (Previously presented) The method of claim 8, further comprising providing a second wait time period triggered by a data communication error event before sending a link configuration request signal to the mobile subscriber.

10. (Original) The method of claim 8, further comprising repeatedly waiting a time equal to the first wait time period until an air link to the mobile subscriber is successfully established.

11. (Previously presented) The method of claim 9, wherein the link configuration signal is a Point-to-Point Protocol (PPP) based communication protocol which upon configuration establishes a PPP connection between the mobile subscriber and the packet data server.

12. (Currently Amended) The method of claim 8, wherein ~~providing~~ waiting the first set time period comprises ~~providing~~ waiting a first ~~wait~~ time period having a duration between 10 milliseconds and 1 second.

13. (Currently Amended) The method of claim 8, wherein the ~~data~~ radio air link connection allows the establishment of a data communication session.

14-15. (Cancelled).

16. (Previously presented) A method for establishing a data communication session with a mobile subscriber in a wireless communication network, the method comprising:

delaying transmission of a configuration request signal for a Point-to-Point Protocol (PPP) connection setup from the data packet server module to the mobile subscriber after receiving a registration request at the data packet server;

sending the configuration request signal to the mobile subscriber after a triggering event, wherein the triggering event indicates that an air link is established with the mobile subscriber; and

establishing a PPP connection between the mobile subscriber and the packet data server and providing the data communication session over the PPP connection.

17. (Previously presented) The method of claim 16, wherein the triggering event is a time-based trigger signal.

18. (Previously presented) The method of claim 16, further comprising sending a signal from the packet data server to trigger the establishment of a radio air link between the base station and the mobile subscriber to allow communication between the packet data server and the mobile subscriber.

19. (Previously presented) A system for wireless communication, comprising:

a packet data server;

a communication network adapted for carrying control and data packets between a mobile subscriber and the packet data server;

a radio air link portion of said communication network, the radio air link having associated therewith an air link establishment delay time; and

said packet data server including a processor that triggers the establishment of the radio air link and attempts sending a link configuration request signal over said communication network responsive to an indication that said radio air link is ready to carry said link configuration request signal to said mobile subscriber to establish a first Point-to-Point Protocol (PPP) connection.

20. (Previously presented) The system of claim 19, wherein the indication comprises a time-based signal indicating that a wait time exceeding the air link establishment delay time has elapsed.

21. (Previously presented) The system of claim 19, wherein the indication comprises an event-based signal indicating that the air link has been successfully established to the mobile subscriber.

22. (Previously presented) The method of claim 1, further comprising buffering data packets prior to the successful establishment of a radio air link to the mobile subscriber.

23. (New) The method of claim 1, wherein the time period is determined from the packet data server pinging a node and determining a network propagation time.